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DERWENT-WEEK: 198920

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TITLE: Restricted area entry control counteracts manipulation by  
using sensors detecting personal features e.g. size,  
dynamic pressure, profile

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PATENT-FAMILY:

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DE 3731773 C	May 18, 1989	DE

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
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TYPE	IPC	DATE
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CIPS	G07C9/00	20060101

ABSTRACTED-PUB-NO: DE 3731773 C

BASIC-ABSTRACT:

Control over entry to a restricted area is given by a combination of tests to validate authority and true identity, using sensors to ascertain personal identity, followed by analyses of footprints, body size and face profile. At least two overhead infrared sensors track movements of a person approaching or

waiting at a door to ensure only one person is present in the entry cubicle. Personal identity and authentication are given by e.g. keypads or badge readers.

A matrix of pressure sensors in a mat gives data on shoe size, pressure distribution, body weight and manner of walking. Ultrasonic sensing measures body dimensions. Head profile in side view is taken by ultrasonic sensor, with additional sensor measuring distance for image scaling correction. A controller evaluates all measurements, applied tolerance bands and scaling factors, and permits entry provided measurements tally with stored templates relating to an authorised person and that only one person is detected in the vicinity of the sensors.

TITLE-TERMS: RESTRICT AREA ENTER CONTROL COUNTERACT  
MANIPULATE SENSE DETECT  
PERSON FEATURE SIZE DYNAMIC PRESSURE PROFILE

DERWENT-CLASS: S05 T04 T05

EPI-CODES: S05-D01C5; T04-D; T05-D;